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0001
1
               IN THE UNITED STATES DISTRICT COURT
 2
               FOR THE WESTERN DISTRICT OF OKLAHOMA
 3
     RICHARD FAUST, as the Personal Representative
 4
     of the Estate of K.F., ASHLEY FAUST, individually,
 5
     and JUSTIN FREDERICK, individually,
 6
               Plaintiffs,
 7
          -vs-
                                    Case No. 5:16-CV-00961-F
8
     GENERAL MOTORS, L.L.C., HUDIBURG BUICK-GMC, L.L.C.,
9
     AUTOLIV ASP, INC., and DELPHI AUTOMOTIVE, L.L.C.,
10
               Defendants.
11
12
     The video deposition of DAVID PRENTKOWSKI was taken by
13
     the Plaintiffs on Thursday, May 3, 2018, at 2501
14
     Worldgateway Place, Detroit, Michigan, at 10:35 a.m.
15
     APPEARANCES:
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     Appearing on behalf of the Plaintiffs.
23
24
     Reported by: Cindy A. Boedy, CSR 4696
25
                   Certified Court Reporter
0019
 3
     Q.
           And then you are the designer of the components
 4
           that make up the seat belt assembly, you Autoliv,
 5
           correct?
 6
           Correct.
     Α.
7
           And you're also the manufacturer of that seat
     Q.
8
           belt assembly, correct?
9
           That's correct.
     Α.
10
     Q.
          And so what Autoliv is doing is designing a seat
           belt assembly around the limitations set by the
11
12
           customer.
13
           Yes, basically. Again, I get hung up on the word
14
           "design." Yes, we're designing the components,
15
           we're putting the components together, but the
16
           customer says I need this style webbing with this
17
           kind of elongation, I need this kind of pillar, I
           need this -- I want this kind of buckle, I want
18
           this kind of tongue, I want these functions in
19
20
           the retractor.
21
                     So in terms of designing the system,
22
           the designing is the matter of do we have the
23
           right components that we can put together to meet
24
           the customer expectation and functional
25
           requirements.
```

```
0047
1
     Α.
           Correct.
           Okay.
2
     Q.
 3
           I don't know if they exist.
 4
     Q.
           Okay. All right. So after you provide the seat
 5
           belt assembly or you provide the quote to General
 6
           Motors, then General Motors likely will say, yes,
7
           that's what I want or, you know, maybe I need
8
           something slightly different after they run
9
           testing or do, you know, modeling or anything
10
           like that, correct?
11
           Correct.
12
     Q.
           They may make changes to the request?
13
           That's correct.
     Α.
14
           And do you know if they made changes to the
     Ο.
15
           request when they first asked for a quote package
           back in 2006 or 2007?
16
17
           I'm sorry, can you reask that?
     Α.
18
     Q.
           Sure. You understand when General Motors starts
19
           designing a vehicle for the 2008 model year that
20
           they are not going to request a quote package for
21
           the 2008 model year in 2008, correct?
22
           That's correct.
     Α.
23
           They are going to likely go back two or three
     Q.
24
           years, correct?
25
           It takes time to develop the vehicle. It starts
     Α.
0048
1
           before launch of vehicle, yes.
2
     Q.
           Sure. And so one of the things that have to
 3
           develop is the restraint system for the vehicle,
 4
           correct?
 5
           That's correct.
     Α.
           And before they ever build a prototype or design
 6
     Q.
7
           a vehicle, they likely do modeling, correct?
8
     Α.
           That's correct.
9
           That's been your experience working with these
     Q.
10
           manufacturers?
11
           Yes, it has.
     Α.
12
           And when you provide -- when you provide the
     Q.
13
           quote package, did they also ask for CAD drawings
14
           and modeling information from you?
15
     Α.
           Quite honestly, in the very early stages, again,
16
           they pretty much modeled and have an idea of what
17
           they are looking for.
18
                     They are more interested in us building
19
           prototype parts so that we can supply parts to
20
           them so that they can do the vehicle-level
21
           testing to see how well their initial assumptions
22
           were working.
23
           Okay. So they ask you for prototype parts, so
     Q.
24
           that -- after they accept your quote, they are
```

asking are you to provide the CAD drawings of the

asking for prototype parts, not -- they are not

25

2 models?

3 Α. Not initially, because, again, as you already 4 explained, it takes time to develop the system. 5 So we'll put -- again, they will have an idea of 6 what -- I'm going to focus on the seat belt 7 assembly portion that includes the retractor. 8 They model and know what their body-in-white 9 looks like, how it's going to be attached to the 10 vehicle, or they will use a mule vehicle or they 11 will do some sled testing with some generic 12 fixtures. And then they will ask us to be able 13 to provide parts to whichever one of those 14 scenarios, mule vehicle or sled fixture, to what 15 their system performance levels they think they 16 need. What kind of torsion bar, what kind of 17 pretensioner.

We'll begin preparing I'll say generic drawings at the same time we're providing prototype parts for their evaluation, but providing models and parts generally comes later after the design has been, I'll say, determined or settled or satisfied where they are more competent in the level of performance of the parts based on the development testing they are

doing on the overall restraint system.

- Q. I see. So you do provide the models and drawings. You just do it later?
- 4 A. Correct.

18

19

20

21

22

23

24

25

0050

- 5 Q. After you've already provided prototypes?
- 6 A. Correct.
- 7 Q. And as the system is getting more mature, that's 8 when you provide models?
- 9 A. Correct.
- 10 Q. So when GM is running those tests, if they decide that, hey, our assumptions were incorrect or our assumptions we need to tweak that, they communicate to you that, hey, we need something slightly different, correct?
- 15 A. That's correct.
- 16 Q. And so what happens then is you go back and you 17 create a new prototype or a new model for GM and 18 give it back to GM, correct?
- 19 A. That's correct.
- 20 Q. And so while this seat belt assembly -- and we're going to talk about the seat belt assembly right
- Q. Now, you are communicating with them. I guess using the term "constant" may not be appropriate, but you are communicating with them throughout this process?

0052

1 A. There's a regular cadence of product or 2 production development review meetings between 3 the Autoliv application engineering team and the

4 General Motors vehicle platform team, yes. 0058 1 during late 2005, 2006, 2007, prior to a 2008 2. model year introduction. So that was twelve, 3 thirteen years ago. I don't know. 20 You're aware that they changed the -- changed the force required on the force limiter, correct? 21 22 Α. Correct. 23 They did that several times throughout the life Ο. 2.4 span of this vehicle, correct? 25 I believe that's correct. 0062 11 And then it has to see the load and in this case Q. 12 the load is three to four newtons, correct, 13 kilonewtons? 14 Α. That's what this paper says, yes. 0074 1 MR. ROBINSON: That will be Exhibit 5. 2 THE WITNESS: You marked that 5. 3 BY MR. ROBINSON: 4 This is a twelve-page document, correct? Does it Ο. 5 say page 1 of 12 on the front? 6 Α. Yes. 7 Q. And if we look on the second page, it says the 8 overall general description of changes to the 9 vehicle. Do you see that? 10 Α. Correct. 11 It says seat belts for passenger side. Do you Q. 12 see that? 13 Α. I do. 14 It says, tortion bar change from 2.5 kilonewtons Q. 15 to 2 kilonewtons, correct? 16 Α. 17 And it said the revision running change was made Q. 18 in November of 2010. Do you see that? 19 I do. Α. 20 And it says the rationale was to reduce chest Ο. 21 compression for the 5th percent female during 22 35-mile-an-hour front NCAP test. Do you see 2.3 that? 24 Α. I do. 25 Q. Did GM ever communicate to Autoliv the desire to 0075 1 reduce the chest compression on the 5th 2 percentile female and ask for suggestions or ways 3 to do that?

My honest answer is I don't know, but they

Α.

```
obviously released an engineering change to make
 6
           that change from 2.5 to 2.
7
           I understand they did that. I'm asking what they
    Q.
8
           communicated to Autoliv.
9
    Α.
           There would have been an engineering work order
10
           that says change the torsion bar from the
11
           original torsion bar to a lower torsion bar.
0082
           Generally speaking, when Autoliv designs a seat
19
    Ο.
20
           belt or an air bag, is it aware that there are
21
           instances which can render an air bag inoperable?
22
                     MR. JENNINGS:
                                    Object to form.
23
                     MR. ZUCKERMAN: Likewise.
24
                     THE WITNESS: I'm still kind of
25
           confused by the question. I mean, air bag
0083
1
           nondeployment is not uncommon, but -- or Autoliv
2
           is aware that air bags occasionally do not deploy
3
           in vehicle systems. But, again, the air bag or
           the pretensioner and any other aspect of the belt
 4
5
           or bags only respond to the inputs that it
 6
           receives from the restraint system control
7
           module, which includes the algorithm or
8
           decision-making process or sensors that are
9
           developed by somebody else in General Motors.
10
                     So are we aware that air bags
11
           occasionally don't deploy, yes, but our products
12
           don't make the decision to deploy or not deploy.
0119
23
    Ο.
           It is foreseeable that there would be a situation
24
           where an air bag would not fire to Autoliv?
25
     Α.
           I think I just answered that question, yes.
0120
13
           Let's look at something real quick. You've seen
    Q.
14
           NCAP tests for this vehicle?
15
           It's a big document. I scanned through it very
    Α.
16
           quickly. I did not read the details of it, no.
17
           All right. Well, you would agree with me that a
     Q.
18
           35-mile-an-hour collision is a foreseeable
19
           collision?
20
    Α.
           Yes.
21
    Q.
           An NCAP test, right?
22
    Α.
           It is.
23
           So let's look, first of all, it's labeled Autoliv
24
           240. I have an extra copy. Jim has it. There
25
           you go.
0121
```

```
MR. JENNINGS: Page 240?
1
 2
                     MR. ROBINSON: It's Autoliv 240 is the
 3
           -- I need to mark that. Can I borrow the front
 4
           page of that for a second?
 5
                     (Exhibit 7 marked.)
 6
     BY MR. ROBINSON:
7
     Q.
           If we look at page -- or Autoliv 240, we have two
 8
           figures on that page, correct?
9
           Correct.
     Α.
10
           And we see the pretest and posttest, correct?
     Ο.
11
           Those are the pictures, yes.
12
           Pretest the seat belt is on the dummy's shoulder,
     Q.
13
           correct?
14
           It is.
     Α.
15
           And it is fairly taut, correct?
     Q.
16
           It appears to be.
     Α.
17
     Q.
           And then the seat belt in the second picture is
18
           the posttest, correct?
19
     Α.
           That's correct.
20
           And in the first frame or the first one we can
     Q.
21
           see some markers on the seat belt identifying its
22
           location, correct?
23
           You mean the inch markings, the scrapes at the
     Α.
24
           shoulder?
25
     Q.
           Yes.
0122
1
           Yes.
    Α.
2
           And by the time we get to the second picture
     Q.
 3
           posttest, we don't see those at all, correct?
 4
           Correct. Don't know where they are at, but they
     Α.
 5
           are not in view.
 6
           They are not in view. And what we can see is
     Q.
7
           that the seat belt is now hanging loosely,
8
           correct?
           It's looser than the pretest picture, yes.
9
     Α.
           And we see that the air bag has deployed in that
10
     Q.
           picture, correct?
11
12
           Correct.
     Α.
13
           What gets interesting is when we start looking at
     Q.
14
           the forces on the head and chest of the occupant
15
           in that test.
16
                     MR. JENNINGS: Object to form.
17
     BY MR. ROBINSON:
18
           If we would go to B14, it's Autoliv 265.
19
                     MR. ZUCKERMAN: I'm sorry, what page?
20
     BY MR. ROBINSON:
21
           It says Autoliv 265 on the lower right-hand
22
           corner. You can see the head result in Gs,
23
           correct?
24
     Α.
           Yes.
25
     Ο.
           It's 49 Gs, correct?
0123
1
     Α.
           That's what it says, correct.
 2
           And then if we turn a couple pages to 267, we can
     Q.
```

```
3
           see the chest result.
 4
     Α.
           Okay.
5
           See that? That's almost 46 Gs, right?
     Q.
 6
           The chest resultant?
7
     Q.
           Yes, page 267. So we're between -- the head --
8
           the head is seeing 49 Gs; the chest is seeing 46
9
           Gs. If we just call it 46 Gs for the head and
10
           chest which is the portion of the torso that's
11
           going to be moving against the -- or the portion
12
           of the body weight that's going to be moving
13
           against the shoulder portion of the belt,
14
           correct?
15
     Α.
           Correct.
16
           And we assume that that's what, roughly half of
     Q.
17
           the body weight of the individual? Is that a
18
           fair assumption?
19
     Α.
           Can you repeat that again?
20
           Sure. Is it fair to assume that the head and the
     Q.
21
           torso portion of the dummy is about half the
22
           weight of the dummy?
23
           Yes, approximate.
     Α.
24
           Is it a little bit more, actually, than half?
     Q.
25
           I don't have an exact value. I think you're
     Α.
0124
1
           correct approximately, but I don't know exactly
2
           what that value is.
 3
           If we call that 46 Gs on interacting with 50
     Ο.
 4
           pounds, 108-pound dummy, correct? That's what a
 5
           5th percentile is?
 6
     Α.
7
           So a 50 -- or 46 Gs acting on, say, roughly 50
     Q.
8
           pounds?
9
           Okay.
     Α.
10
           That's 2300 pounds, correct?
     Q.
11
     Α.
           Correct.
12
           And so it's entirely foreseeable -- you agreed
     Q.
13
           that the 35-mile-an-hour crash is entirely
14
           foreseeable, correct?
15
           Thirty-five-mile-per crashes do happen.
     Α.
16
     Q.
           Yes. And it's entirely foreseeable that --
17
           you've agreed with me that an air bag may not
18
           deploy, correct?
19
           Yes.
     Α.
20
                     MR. ZUCKERMAN: I'm going to object to
           the form of the question. We don't know anything
21
22
           about the circumstances. I shouldn't have said
23
           the extra part. I apologize. I object to form.
24
                     MR. ROBINSON: That's fine. And here,
25
           I'll rephrase the question.
0125
1
     BY MR. ROBINSON:
           It's entirely foreseeable in a 35-mile-an-hour
2
 3
           crash that for a variety of reasons an air bag
 4
           may not fire, correct?
```

- 5 A. It is possible for that to occur, yes.
- 6 Q. And Autoliv has seen that happen?
- 7 A. I don't know that Autoliv has seen that happen.
- 8 I mean, it is possible to occur.
- 9 Q. Well, let me rephrase that. Autoliv has been
- involved with cases where that has occurred?
- 11 A. An air bag nondeployment, yes.
- 12 Q. Yes, yes. It is something that Autoliv has been
- involved with and has litigated about?
- MR. JENNINGS: Object to the form.
- 15 BY MR. ROBINSON:
- 16 Q. Correct?
- 17 A. Yes.
- 18 $\,$ Q. Now, you said that was 2300 pounds of force,
- 19 right?
- 20 A. I think that's what you said.
- 21 Q. And with a load limiter that you only have to put 22 600 pounds of force on, where is the dummy's head
- and torso going?
- 24 A. They are moving forward.
- 25 Q. Towards the dash?
- 0126
- 1 A. They are moving forward. Where they are going is not a simple answer, because there are a lot of
- other things going on in the vehicle.
 In a frontal, pure frontal crash?
- 5 A. I'll repeat, they are going forward.
- 6 Q. In the NCAP test, if you do not have passenger
- 7 air bag deployment, the dummy's head and torso
- 8 are moving towards the dashboard, are they not?
- 9 A. They are moving forward, yes.
- 10 Q. Yes. And they will continue moving forward as
- 11 long as that load is placed on the belt, correct?
- 12 A. As long as the load exceeds the load-limiting
- value of the retractor, the retractor will
- 14 continue to pay out webbing at that controlled 15 rate, yes.
- 16 Q. And so as long as it exceed 600 pounds, it's
- 17 going to continue to pull out that load, correct?
- 18 A. Correct.
- 19 Q. And it's going to continue to do so in a
- 20 35-mile-an-hour NCAP test until something arrests
- the head and torso of the dummy, correct?
- 22 A. Correct.
- Q. And so if the air bag isn't there, the only thing to arrest the head and torso of the dummy is the
- dashboard.
- 0127
- 1 MR. ZUCKERMAN: Object to form.
- THE WITNESS: It's possible.
- 3 BY MR. ROBINSON:
- 4 Q. What else is there?
- 5 A. It depends on the position of the dummy.
- 6 Q. Well, that's an interesting question, because the

```
7
           NCAP test gives you a very specific position of
8
           the dummy, doesn't it?
9
           No. At the start of the test it does.
     Α.
10
     Q.
           Yes.
11
     Α.
           But how the dummy moves during a crash event is
12
           not always easily predictable.
13
           Well, the head and torso of that dummy are going
     Q.
14
           to move forward against that belt and are going
15
           to continue to pull that belt out until such time
16
           as something arrests the head and torso. Am I
17
           correct?
18
           Yes.
     Α.
19
           And only thing in front of the head and torso if
     Q.
20
           you don't have an air bag is the dashboard?
21
                     MR. ZUCKERMAN: Object to form.
22
                     THE WITNESS: In general terms, yes.
23
     BY MR. ROBINSON:
24
           And so the head and torso are going to go into
     Ο.
25
           the dashboard if there's no air bag.
0128
1
                     MR. JENNINGS: Object to form.
2
     BY MR. ROBINSON:
 3
     Q.
           Correct?
 4
           It's possible.
     Α.
 5
     Q.
           And Autoliv was aware of this before it released
 6
           the seat belt in 2012? I guess, actually, let me
 7
           strike that.
8
                     Released the seat belt in 2011.
9
           Well, I honestly don't know what Autoliv was
     Α.
10
           aware of or with this specific vehicle an
11
           application.
12
                     Again, in general terms, if there's no
13
           air bag an occupant will continue to move. But
0151
1
     BY MR. ROBINSON:
2
           So can we agree that assuming that the air bag
     Q.
 3
           does not fire in that NCAP test and that the
 4
           dummy's head, torso, and neck, the only thing in
 5
           front of it to stop it is the dashboard, correct?
 6
           That's what's going to be there to stop them,
7
           correct?
8
           Correct.
     Α.
9
           I'm not going to ask you to be an expert
     Q.
           biomechanist, an expert anything. I'm not going
10
11
           to ask you to tell me what injury values you're
12
           going to get. I'm just going to ask you to use
13
           your background with the engineering. You had to
14
           take a lot of physics to be an engineer, right?
15
           Yep.
     Α.
16
           Yes. And Newton's laws of motion say that an
     Q.
17
           object in motion is going to remain in motion
```

until acted upon but an outside force, right?

```
19
    Α.
           Correct.
20
    Ο.
           Now, the only outside force, if that seat belt is
21
           spooling out because it only requires 600 pounds
22
           of force to pull out and you have 2300 pounds of
23
           force acting on it, the only thing to stop it is
24
           whatever is in front of the person or the dummy,
25
           correct?
0152
1
           That's correct, but I'm also going to repeat what
    Α.
2
           I mentioned earlier that based on the basic
           physics of the crash where you start at an
 3
 4
           initial velocity of -- relative velocity of zero,
 5
           you reach a peak lower acceleration and as energy
 6
           is being absorbed, the velocity slows down.
7
                     So while you may contact that dashboard
8
           in front of you, I have no way to know or predict
9
           at what speed or what force or what injury-level
10
           criteria contact may or may not occur. I've
11
           never seen this vehicle being tested without an
12
           air baq.
13
                     I would assume that the occupant is
14
           going to move further than it does without an air
15
           bag. But, yes, dashboard is in front of you.
16
           Potentially you contact the dashboard. I don't
17
           know if that means injury.
0153
1
           bag. It's a lot of other things in the car and
2
           they are designed to work together.
 3
                     So the seat belt is doing exactly what
 4
           was specified and asked of it to do. It locks.
 5
           It initially restrains the occupant. It provides
           a load-limiting force to that occupant for as
 б
7
           long as that force level is applied and is not a
8
           failure of the seat belt assembly. It's doing
9
           what it's designed to do.
10
           That is not the question I asked. I asked about
     Q.
11
                        I understand that the entire system
           the system.
12
           has to work together. I understand that's what
13
           your position is. My question is, can we agree
14
           that if an occupant hits her head sufficient to
15
           cause fatal injuries into a dashboard because her
16
           air bag didn't deploy and she didn't get the full
17
           benefit of the full system that the restraint
```

MR. JENNINGS: Object to the form of the question. If you can answer, go ahead.

THE WITNESS: If there was no air bag deployment, the restraint system as an overall occupant protection device did not do what it was originally designed to do.

system failed her?

18

19

20

21

22

23

```
0166
1
           in most vehicle manufacturers' owner's manuals.
2
           Do you know if it's in this one?
     Q.
 3
           I believe from the General Motors deposition, he
 4
           said that it was.
 5
     Q.
           Have you read this owner's manual?
 6
           I personally have not.
     Α.
7
     Q.
           Can you and I agree that there are design options
8
           available to Autoliv and to GM that can limit the
9
           total amount of webbing that can pay out in a
10
           wreck?
11
           There are designs that will limit the amount of
12
           webbing payout, yes.
13
           And Autoliv has some of those, correct?
     Ο.
14
           I'm sorry, I'm sorry. I have a cramp.
     Α.
15
           apologize.
16
                     MR. ROBINSON: Let's take a quick
17
           break.
18
                     VIDEO OPERATOR: Off the record at
19
           3:23 p.m.
20
                     (Off the record.)
21
                     VIDEO OPERATOR: Back on the record.
22
           The time is 3:26 p.m.
23
     BY MR. ROBINSON:
24
     Q.
           Sir, before we went off the record I was asking
25
           you about ways that you could limit the webbing
0167
1
           payout of this torsion bar or a torsion bar, and
           one of the ways you can do that is to put just a
2
 3
           stop on the torsion bar after a certain point of
 4
           webbing. You just stop it and don't allow any
 5
           more webbing to come out, correct?
 6
           There's a device called a stopper mechanism. It
     Α.
7
           doesn't act directly on the torsion bar, but,
8
           yes, you can limit the number of turns on the
9
           spindle.
10
     Q.
           Another way you can limit the amount of webbing
11
           payout is to use a stronger torsion bar, correct?
12
           That's correct.
     Α.
13
           And then we've already talked about it a little
     Q.
14
           bit, but the feature that was in 2008 would be the
15
           digressive feature would be one way to stop it
16
           also, correct?
17
           It doesn't stop webbing payout. It just changes
     Α.
18
           the load-limiting characteristic with a higher
19
           restraint force at the beginning and slightly
20
           lower restraint force at some point during the
21
           event.
0172
           Did Autoliv ever tell GM that that's the -- that
1
     Q.
           the limits on this force limiter that the limit
2
           to the amount of spool-out is the amount of
```

- webbing on the spool?
- 5 Α. I think I answered before. General Motors has a
- 6 lot of very smart people in their crashworthiness 7
- function. They know how load-limiting retractors
- 8 work and they know that function of the limiting 9 retractor. So did we actively tell them, no, but
- 10 they know that. 11 So the answer to my question is did you tell them Q. 12 is no?
- 13 No. It's correct; it's no. Α.
- 14 And you just relied on GM to know what you had Q. 15 and to know what could be done.
- 16 They are designing the restraint system. Α. 17 they know.
- 18 Does Autoliv send GM advertisements, catalogs, or Q. 19 any kind of material to tell GM what the options 20 are in the -- for the seat belt system?
- 21 We don't publish catalogs or advertise. If a Α. 22 customer is interested in a technology, they 23 typically arrange a technology review meeting. 24 And your follow-up question was did we ever have 25 a technology review meeting, and I'm sure we did. 0173
- 1 I couldn't tell you exact time or date or who was 2 there, but I'm certain that we do, we do that on 3 a regular basis with all our customers.

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- 16 Q. Now, tell the jury what a Z-type retractor was.
- 17 A Z-type retractor? Autoliv many years ago had a
- 18 joint venture with a Japanese seat belt company
- 19 called NSK. Over the years, Autoliv actually
- 20 purchased NSK. One of the NSK retractor types
- 21 was what they called a Z-type retractor.
- 22 And you told us the history of the Z type, but Q.
- 23 you didn't tell me what the Z-type retractor is.
- 24 It's capable of load limiting and stopper Α. 25 function.

- And that was something Autoliv had available in 1 Q. 2 2006 when GM was designing the 2008 to 2012 Chevy 3 Malibu?
- 4 Correct. Α.
- 5 And that was something that they have for the Q. 2012 Malibu, correct? Still available? б
- 7 Α. Sorry.
- 8 The Z-type retractor was still available for the Q. 9 2012 Malibu, correct?
- 10 Z-type retractor I think was no longer being made Α. available, but we did have other retractors with 11 12 stopper functions.
- 13 So you had something with a similar function Q. 14 then?

15 A. Correct.